

## SECURITY CAMERA FOR A NETWORK

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**Inventor(s):**

**Applicant(s):**

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(IPC1-7): G06F15/00; H04L12/56

- **European:** H04L12/24C1; H04L12/24D1; H04L12/24F3; H04L12/26M;  
H04L29/06S14A1; H04L29/06S14A2; H04L29/06S14D2

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**Priority number(s):** US20000203652P 20000512; WO2001US15601 20010512

**Also published as:**

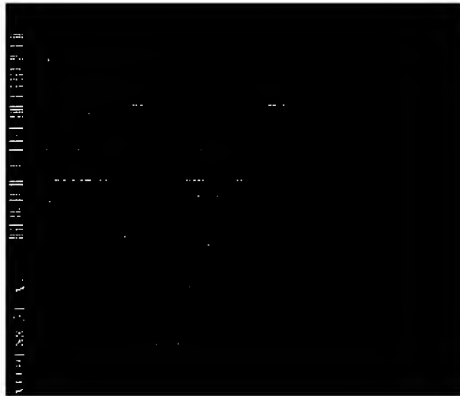
 WO0188731 (A1)  
 SG143052 (A1)  
 ES2313959 (T3)  
 EP2018018 (A2)  
 EP2018018 (A3)

more >>

Abstract not available for JP 2003533925 (T)

Abstract of corresponding document: **WO 0188731 (A1)**

A method for processing data from a communication line. Data is received from the communication line (802) and segregated into packets (803). Packets are selected based on a respective characteristic (804) and the selected packets are provided to one of a plurality of data processing units.



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(19) 日本国特許庁 ( J P )

(12) 公表特許公報 ( A )

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特表2003-533925  
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(43) 公表日 平成15年11月11日 (2003. 11. 11)

(51) Int.Cl. <sup>7</sup>	識別記号	F I	テマコード* (参考)
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G 0 6 F 15/00	3 2 0	G 0 6 F 15/00	3 2 0 K 5 K 0 3 0

審査請求 未請求 予備審査請求 有 (全 96 頁)

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(33) 優先権主張国 米国 ( U S )

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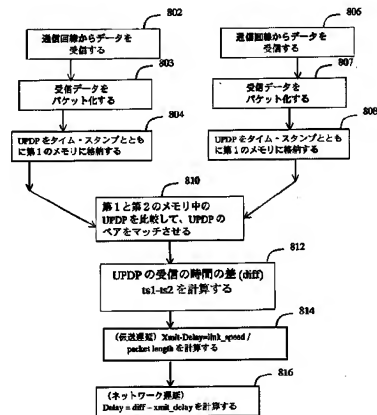
最終頁に続く

(54) 【発明の名称】 ネットワーク用のセキュリティ・カメラ

#### (57) 【要約】

【目的】 通信回線からのデータを処理する。

【構成】 通信回線からのデータを処理するための方法であって、データは通信回線から受信され、パケットに分離される。パケットは各特性に基づいて選択され、選択されたパケットは複数のデータ処理ユニットの1つに供給される。





























F 1 : インデックス (受信時間)	F 2 : パケットまたはパケットの一部
---------------------	----------------------

































































































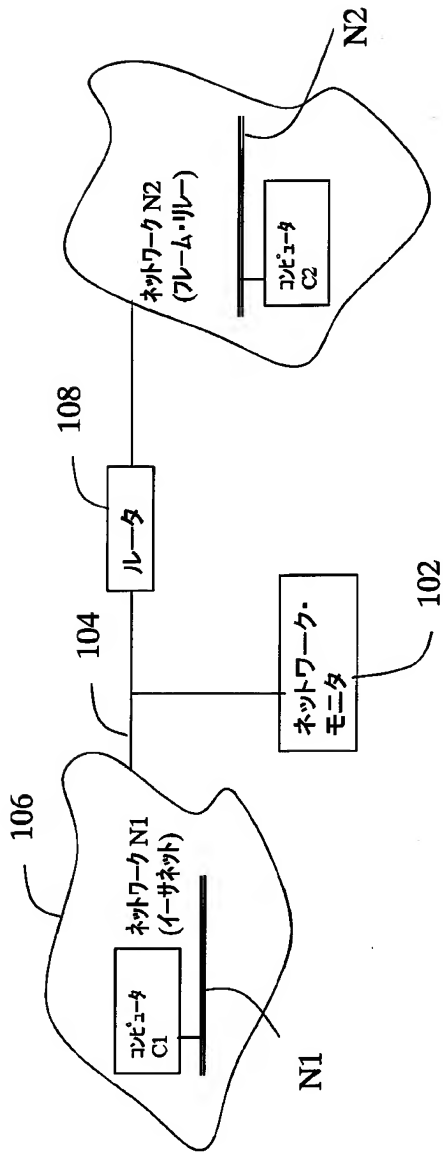


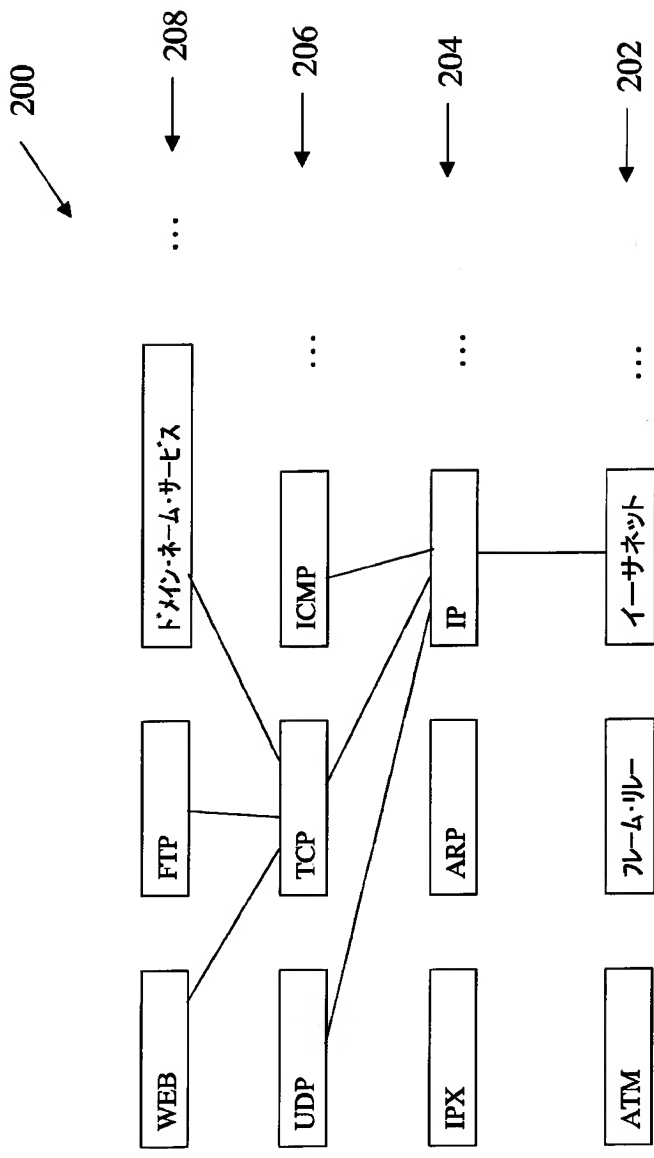




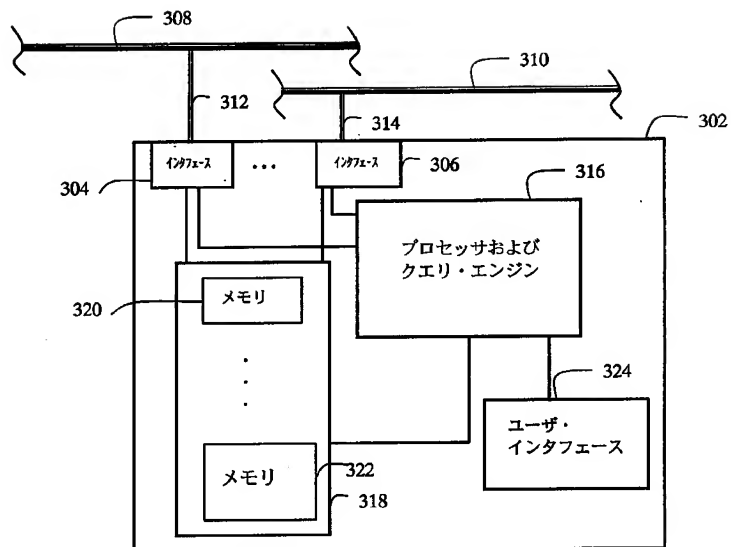


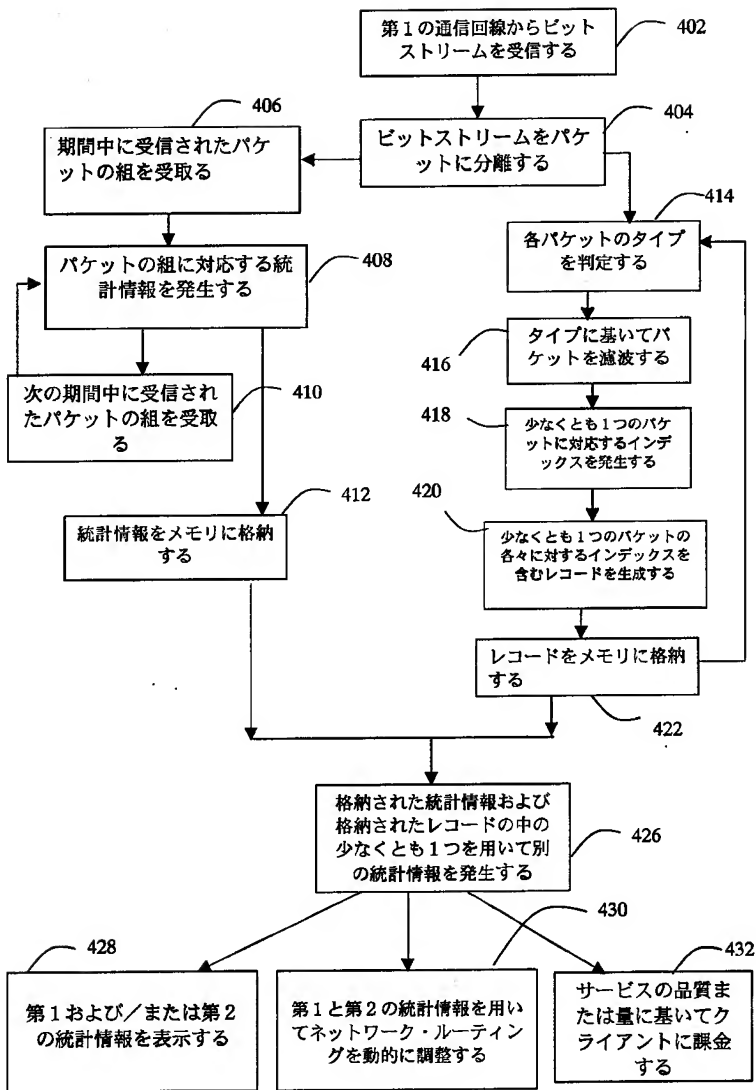


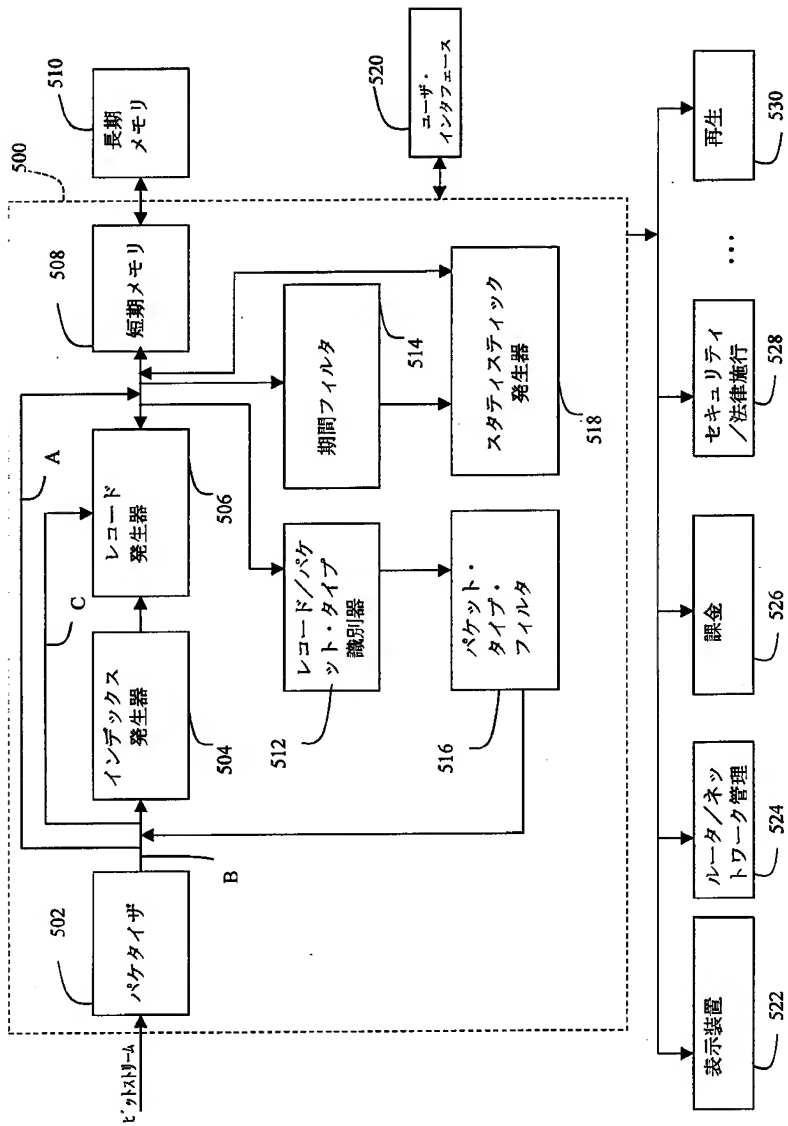


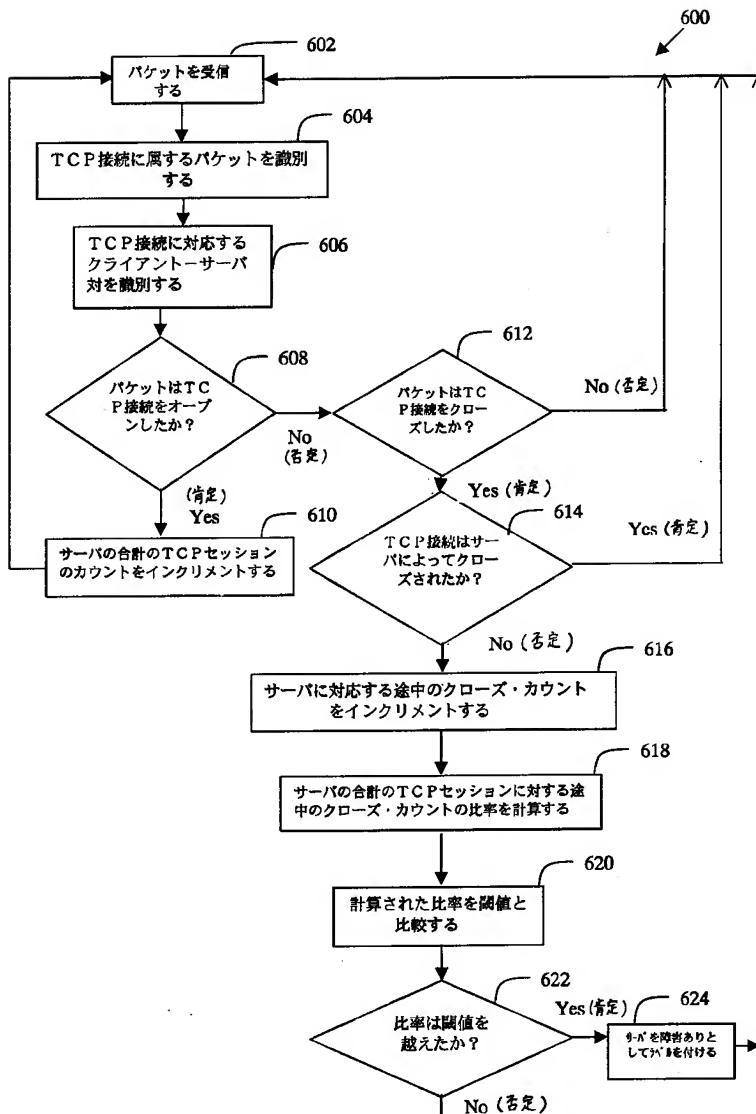


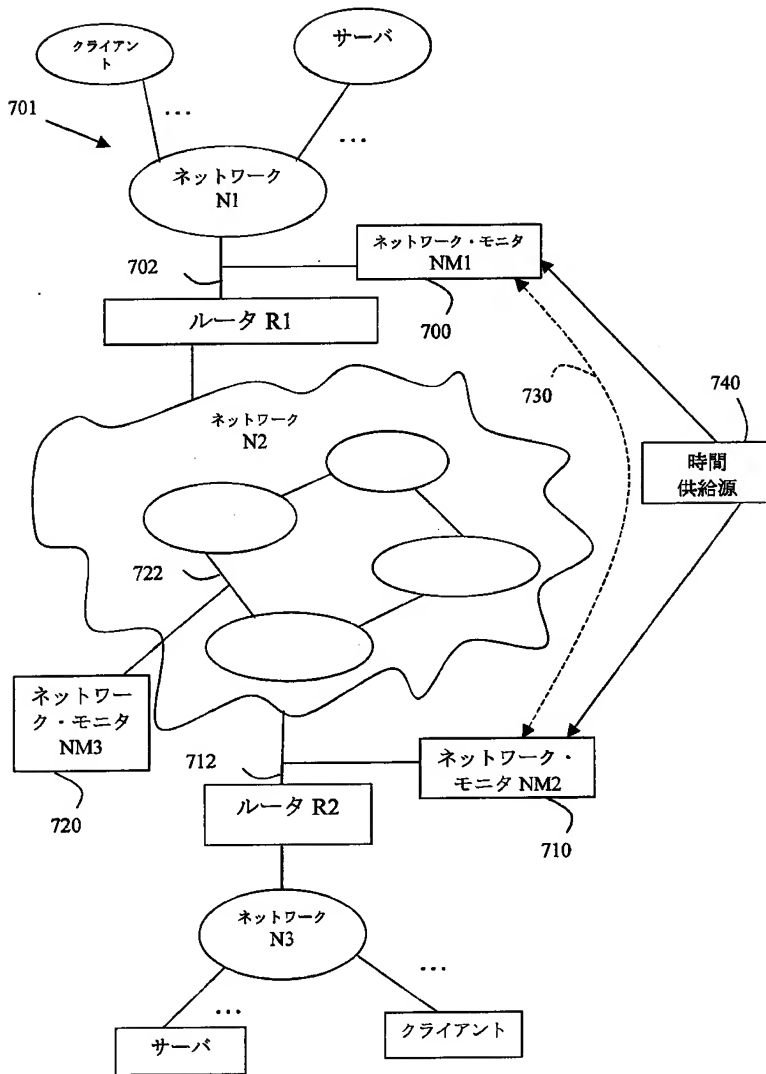


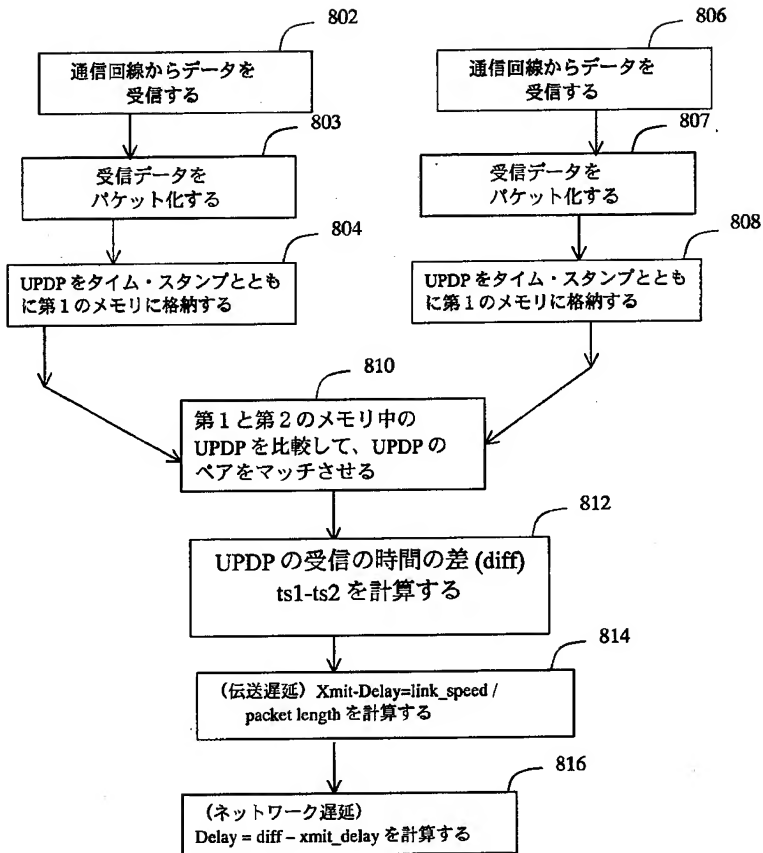


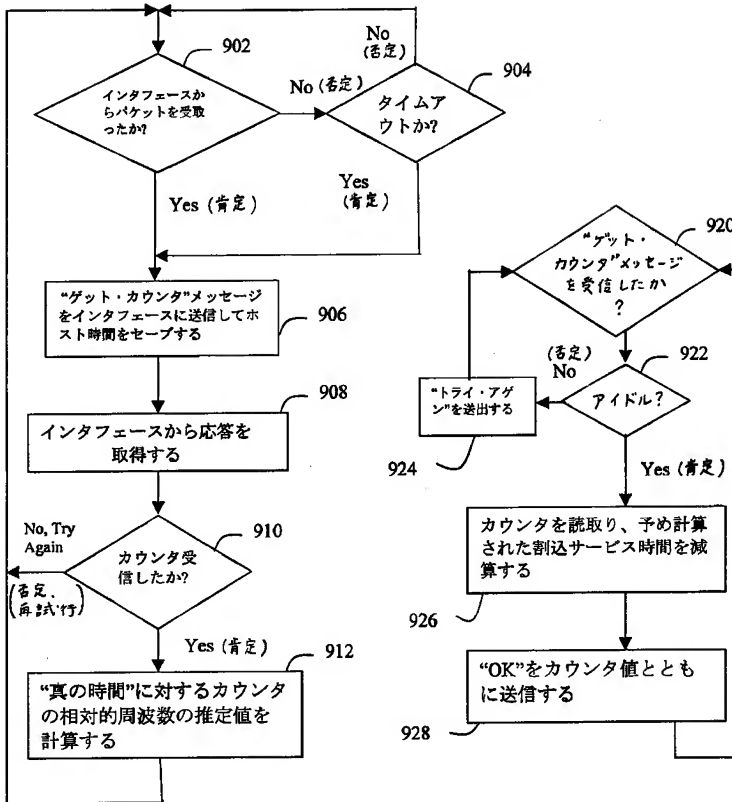






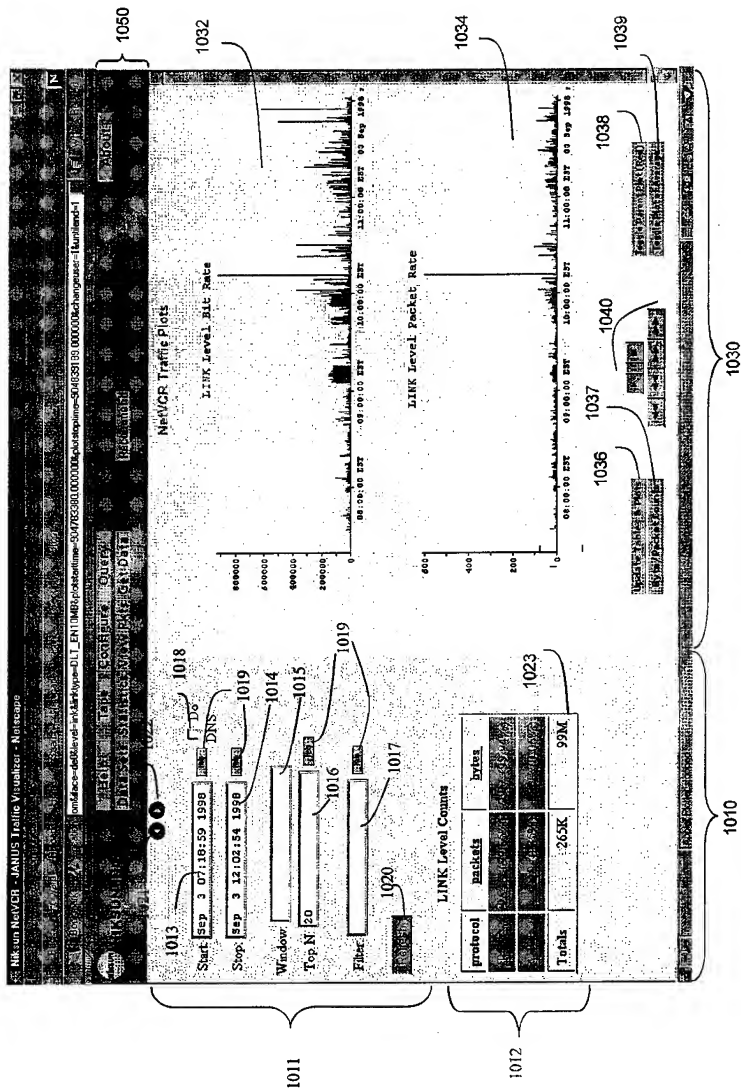




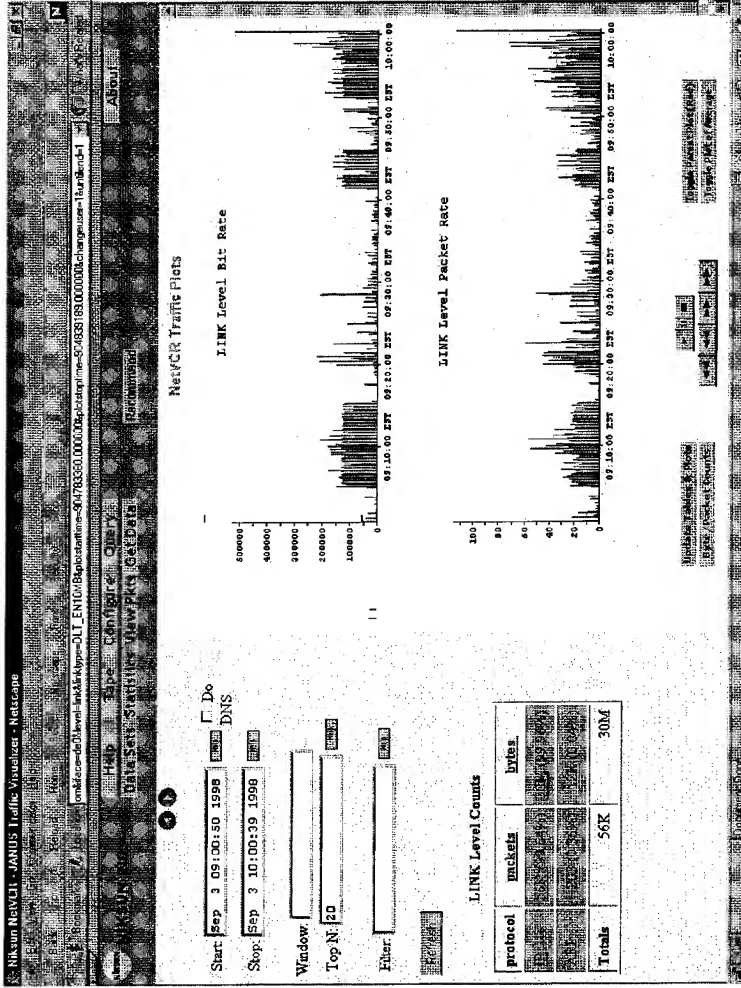


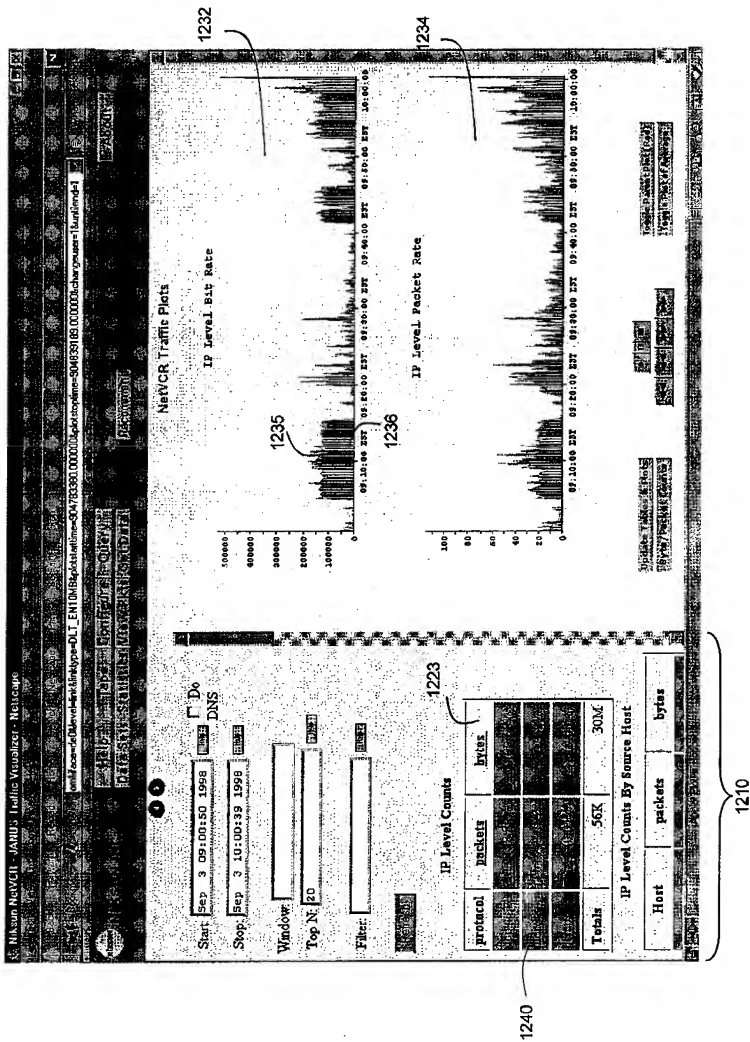
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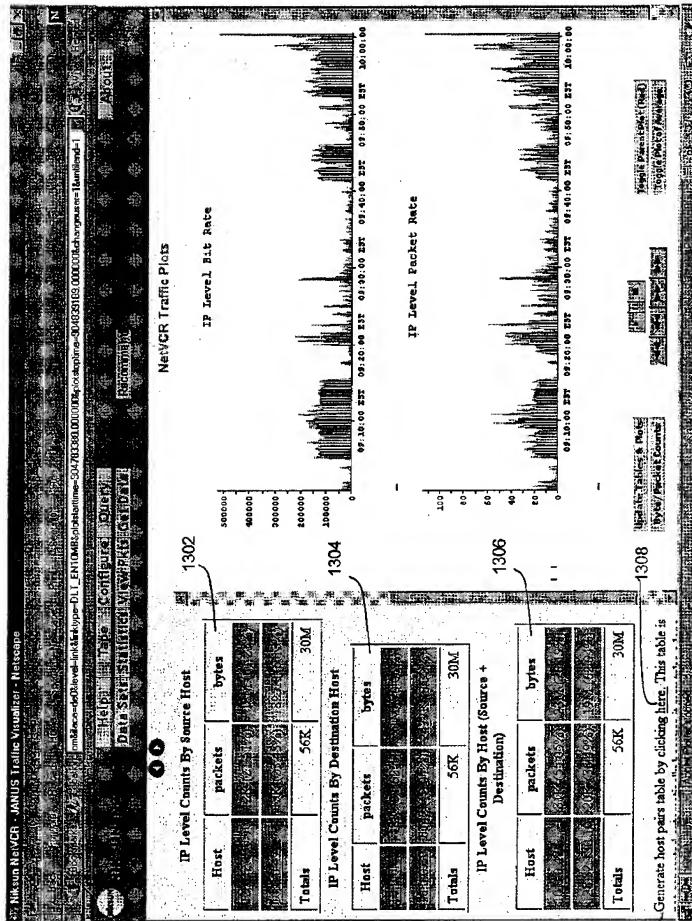
(B)





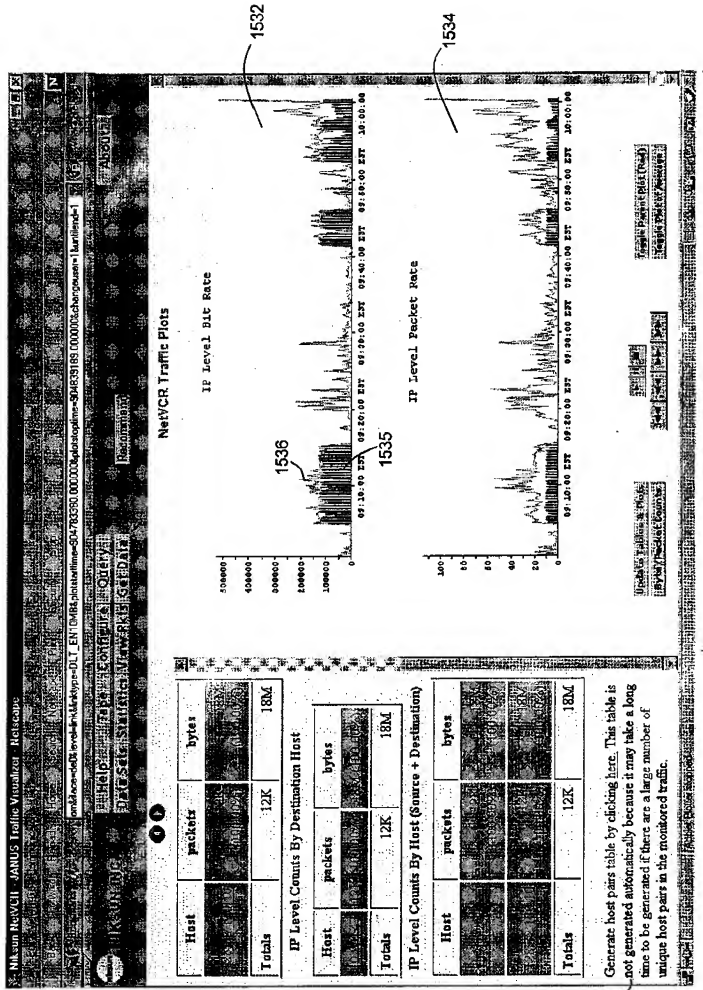






(ここをクリックすることによってホスト・ペア・テーブルが発生する。)





(このテーブルは自動生成されない。その理由は、多数の固有ホスト・ペアがソケット中に存在する場合に長い時間がかかるからである。)



ICP flows: for full from Sep 3 09:00:30 1998 to Sep 3 18:00:30 1998 - Netpage

ICP Flows													
		Start	Step	Orig host	Orig part	Orig bytes	Term host	Term part	Term bytes	RTT (sec)	Response (sec)	Reemit bytes	
1704	1702												
		pkts	Sep 3 09:01:04 1998	10.0.0.47	33392	89	10.0.0.5	12043	N/A	N/A	0	0	
		pkts	Sep 3 09:02:23 1998	10.0.0.101	33392	644	10.0.0.30	12043	710	0.000345	0.000252	0	
		pkts	Sep 3 09:03:45 1998	10.0.0.40	2572	43	10.0.0.5	12043	221	0.000933	0.380737	0	
		pkts	Sep 3 09:05:06 1998	10.0.0.47	33383	361	128.32.130.10	12043	0	N/A	N/A	0	
		pkts	Sep 3 09:06:07 1998	10.0.0.40	2574	322	207.25.71.29	12043	42357	0.426337	0.481845	892	
		pkts	Sep 3 09:06:09 1998	10.0.0.40	2575	753	207.25.71.29	12043	126	0.980415	1.017279	0	
		pkts	Sep 3 09:06:13 1998	10.0.0.40	2576	752	207.25.71.29	12043	126	0.998335	0.937072	0	
		pkts	Sep 3 09:06:09 1998	10.0.0.40	2577	1076	207.25.71.29	12043	18243	1.004437	1.171244	373	
		pkts	Sep 3 09:06:17 1998	10.0.0.40	2578	759	207.25.71.29	12043	126	1.170077	1.488473	0	

TCP Flow										
Start	Stop	Orig host	Orig port	Orig bytes	Term host	Term port	Term bytes	RTT (sec)	Response (sec)	Rxmit bytes
Sep 3 09:02:43 pkts pldt 09:01:04 1998	Sep 3 09:02:43 1998	10.0.0.47	32392	89	10.0.0.3	1802	12043	N/A	N/A	0
Sep 3 09:03:06 pkts pldt 09:02:06 1998	Sep 3 09:03:07 1998	10.0.0.47	32388	361	128.32.130.10	1110	0	N/A	N/A	0
Sep 3 09:13:00 pkts pldt 09:13:00 1998	Sep 3 09:16:45 1998	10.0.0.47	32394	161	193.196.152.2	80	1690	0.667519	0.601587	211
Sep 3 09:18:48 pkts pldt 09:18:48 1998	Sep 3 09:19:14 1998	10.0.0.47	32397	0	128.16.5.31	1337	560	N/A	5.638692	1
Sep 3 09:19:22 pkts pldt 09:19:22 1998	Sep 3 09:19:39 1998	10.0.0.47	32398	0	128.16.5.31	10100000	697	0.429188	6.083521	2
Sep 3 09:19:59 pkts pldt 09:19:59 1998	Sep 3 09:22:40 1998	10.0.0.47	32399	990024	10.0.0.31	xwindows	4584	0.001254	0.026585	0
Sep 3 09:23:58 pkts pldt 09:23:58 1998	Sep 3 09:24:00 1998	10.0.0.47	80-data	635	10.0.0.31	1618	0	0.000669	N/A	0
Sep 3 09:23:20 pkts pldt 09:23:20 1998	Sep 3 09:24:12 1998	10.0.0.31	1617	206	10.0.0.47	80	587	0.000836	0.044319	0
Sep 3 09:24:05 pkts pldt 09:24:05 1998	Sep 3 09:24:07 1998	10.0.0.47	80-data	31406	10.0.0.31	1619	0	0.000648	N/A	0



3-0002347020719886...user@caltime-5ep2-2032032-20103-3470234-3922019886...user@caltime-5ep2-2032032-20103-3470234-3922019886...

Host	packets	bytes
Totals	56K	30M

TCP Level Counts by Host Pairs

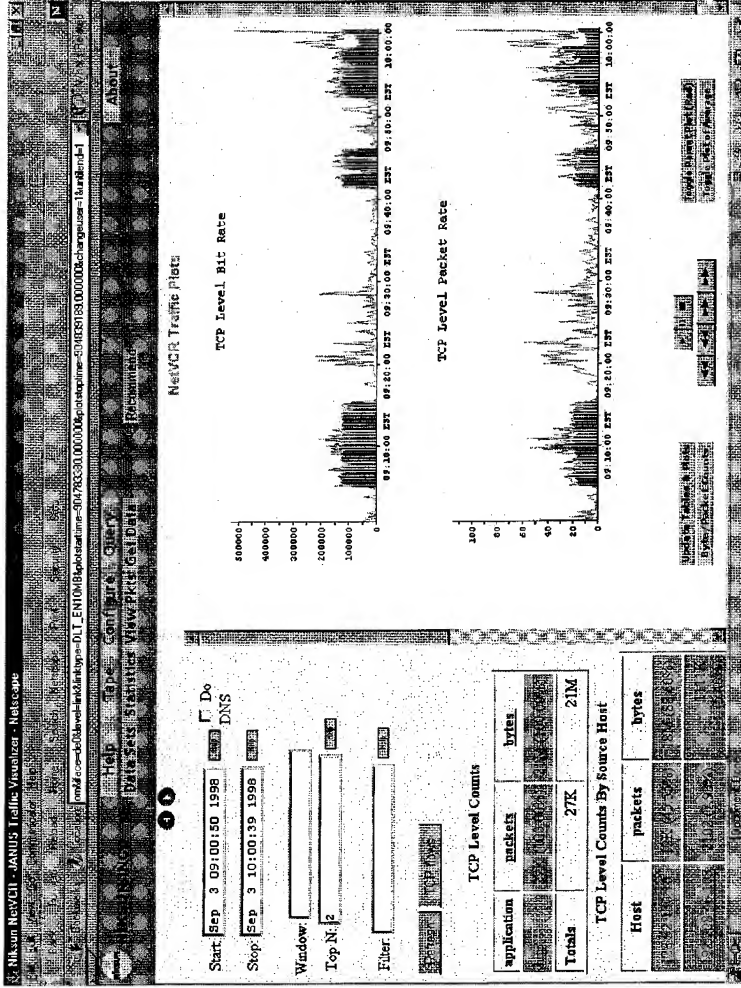
Src => Dst	packets	bytes
Totals	56K	30M

Troubled TCP Clients

Client	No. Of Connections	TCP data bytes	TCP goodput (Bytes/Sec)	TCP throughput (Bytes/Sec)	Avg RTT	Avg Response	Retransmit %
Totals	377						

Troubled TCP Servers

Server	No. Of Connections	TCP data bytes	TCP goodput	TCP throughput	Avg RTT	Avg Response	Retransmit %
Totals	377						







```

cylance=mbor;elevel="ntsf";ktype=DLT;ENTOMB&nbolstartime=901382220.000000;nbolstopline=901684627.000000;chondruser={kunt7}

```

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Session name: **The Capitol**  
**Connection-GMU video stats audio stats**  
 play

**InfoTide: Broadcasting the Open Meetings of the**  
Federal Communications Commission (FCC), Federal  
Energy Regulatory Commission (FERC) and National  
Transportation Safety Board (NTSB). Please call or  
e-mail the Capitol Connection for pricing details.  
**Owner/Identifier:** saljanna 3110302417421697662  
IN ID4 129, 174, 216, 97

URL of description:

<http://www.cabitoconnection.emu.edu>

E-mail address: capcon@omniu.edu (saljirani)

Phone number +01 703 993-3100

U.S. DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

Time the session is active: **FRIDAY, Jul 27 10:02:44**

1008 TQ: Jan 26 09:02-11 1999

200-

1008 TQ: Jan 26 09:02-11 1999

1990 10 JAN 20 03:02.44 1995  
Software needs: ICAST Researcher V2 01/01/00

[illegible]

INFORMATION

RECEIVED: JANUARY 28, 1968  
 FROM: J. L. H. J. 1968

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

Media: Video at IP4 224.2.168.1 port 601/2 with  
 23:20:00 EST 23:30:00 EST 23:40:00 EST 23:50:00 EST

21:11

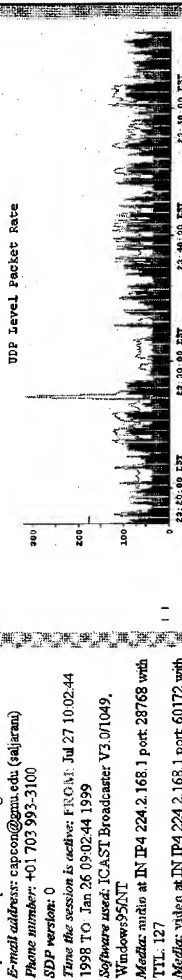
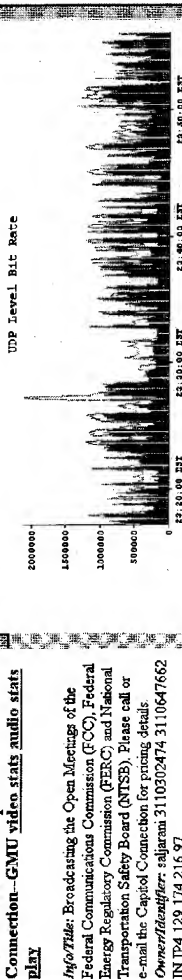
**Media:** data at IN P4 224.2.68, port 38910 with

THE

**Update Training & Policy**

**Join the Experts**

## Session theme: TSC video stats and io stats

[illegible]

[illegible]

## Niksun NetVCR Bandwidth Advisor

Statistics Start Time	Sep 3 09:00:50 1998
Statistics End Time	Sep 3 10:00:39 1998
Recorder	stiegl@nksun.com
Interface	de0
Protocol Layer Name	UDP

Hurst Parameter Estimate: 0.722652

Peakedness Factor Estimate: 178.089

**Total number of Bytes: 89413 bytes**  
**Peak Rate in Bits/Sec: 24368 bps**  
**Average Rate In Bits/Sec: 201,098 bps**

Total number of Packets: 581 packets  
Peak Rate in Packets/Sec: 20 pps  
Average Rate in Packets/Sec: 0.16334 pps

2502

## Bandwidth Requirements

Max. No. Of Sources 50

परिग्रहः

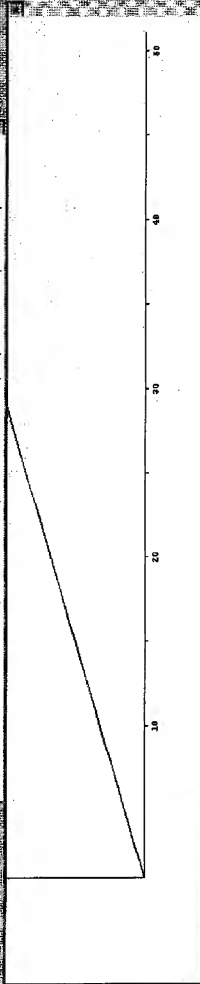
### Loss Rate Advisor

Bit Loss Rate 1e-06

Buffer Size: 2097152

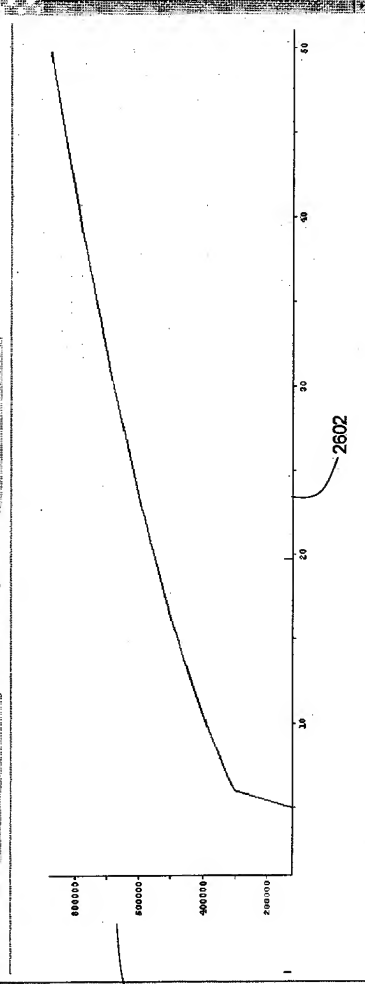


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### Delay Advisor

Delay Confidence	1e-06	Per-Packet Delay Limit (Sec)	0.01
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File Edit View Options Help Type Configure Query

Search Save Statistics View PAN Get Data

Reset/Reload

About

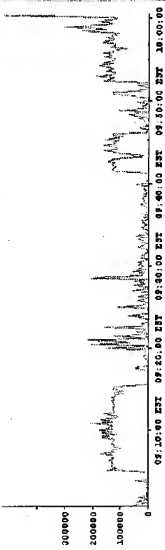
# NetVCL Traffic Plots

Legend 010 2.2A

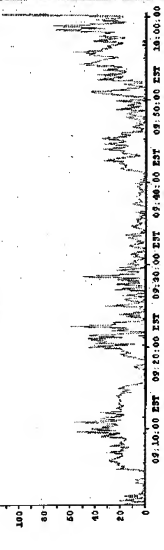
## UDP Level Counts By Source Host

Host	packets	bytes
192.168.1.1	22 (2.73%)	2468
192.168.1.2	28 (4.59%)	2221
192.168.1.3	37 (23.19%)	1981
192.168.1.4	15 (23.19%)	1861

## UDP Level Bit Rate



## UDP Level Packet Rate



192.168.1.1  
192.168.1.2  
192.168.1.3  
192.168.1.4

192.168.1.1  
192.168.1.2  
192.168.1.3  
192.168.1.4

192.168.1.1  
192.168.1.2  
192.168.1.3  
192.168.1.4

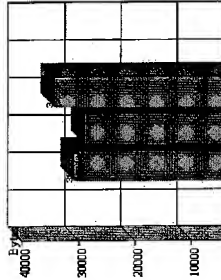
8/23/2000 10:50:50 AM 1998 34335201398 Janus Statistics Snapshot Page - Netscape

## Niksun NetVCR JANUS Statistics

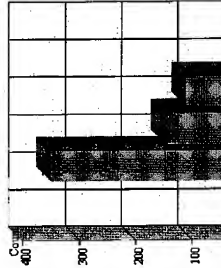
Statistics Start Time Sep 3 09:00:50 1998  
 Statistics End Time Sep 3 10:00:39 1998  
 Recorder stieg.niksun.com  
 Interface de0  
 Protocol Layer Name UDP

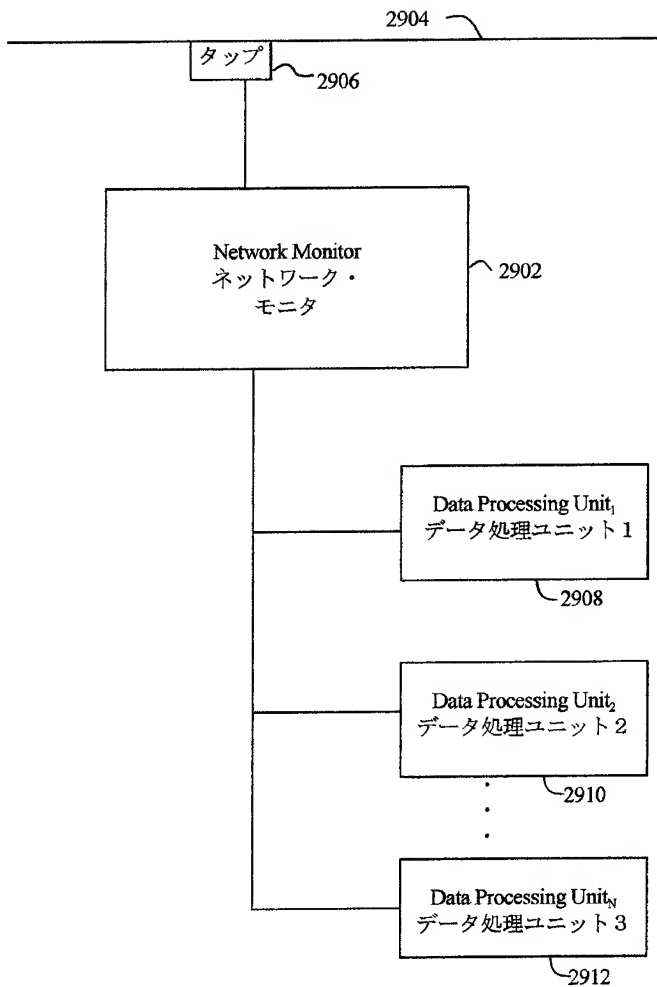
Total number of Bytes: 95186 bytes	Total number of Packets: 616 packets
Average Rate In Bits/Sec: 212.17 bps	Average Rate In Packets/Sec: 0.17 pps
Minimum Packet Size: 60 bytes	Mean Packet Size: 154.52 bytes
Maximum Packet Size: 538 bytes	Packet Size Variance: 9072.80 bytes^2
	Variance/Mean: 58.72 bytes

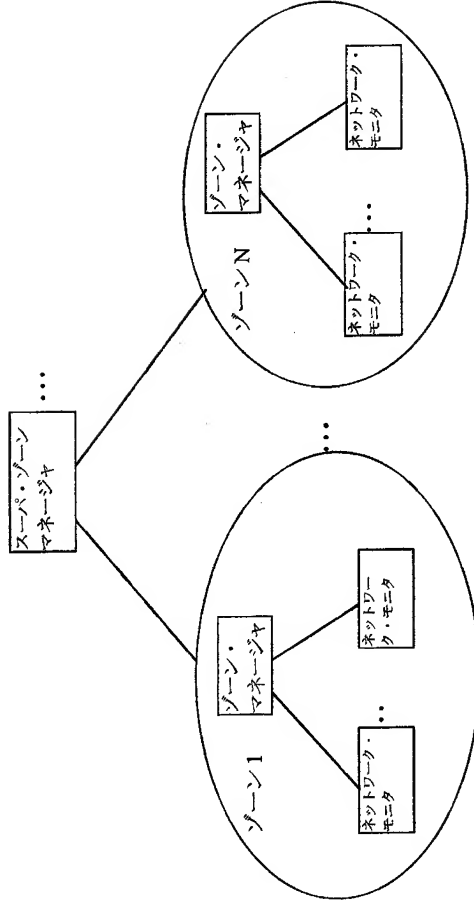
NO. OF BYTES VS PACKET SIZE



NO. OF PACKETS VS PACKET SIZE









Analysis

10.0.0.0/24  
10.0.0.0/24  
10.0.0.0/24  
10.0.0.0/24

Network Traffic Data

10.0.0.0/24  
10.0.0.0/24  
10.0.0.0/24  
10.0.0.0/24

Start  
1 year

Stop  
1 year

Protocol Layer  
Link

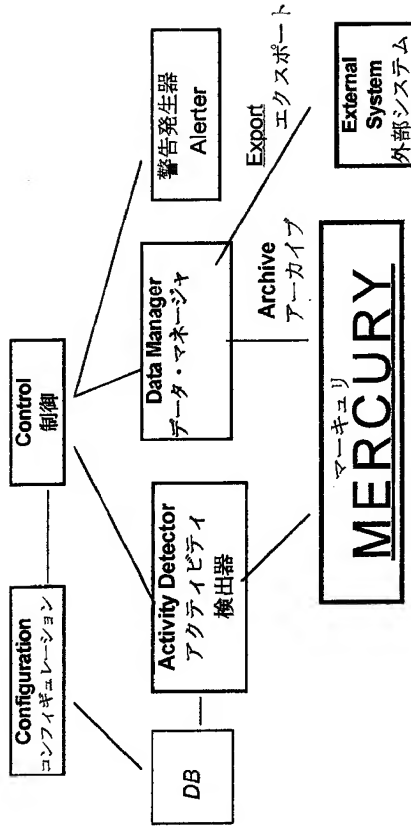
Analyze

Configure

Reports

Sched. Reports

Vertical Grid Lines  
Horizontal Grid Lines



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US01/15601

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : G06F 15/16 US CL : 709/224, 246 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 345/440; 709/224, 231, 246; 713/201; 714/26; Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms: analyzer, monitor, probe, classify?, filter?, performance, report?		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,615,323 A (ENGEL et al.) 25 March 1997, abstract, especially col. 3, line 55 - col. 4, line 45	17-18
X	US 5,787,253 A (MCCRERY et al.) 28 July 1998, abstract, especially col. 4, line 34 - col. 7, line 6, col. 8, line 1-35, col. 9, line 21 - col. 10, line 50	1-3, 6-16
Y	US 5,991,881 A (CONKLIN et al.) 23 November 1999, abstract, especially col. 4	4-5
Y	US 5,991,881 A (CONKLIN et al.) 23 November 1999, abstract, especially col. 4	4-5
X, P	US 6,085,243 A (FLETCHER et al.) 4 July 2000, abstract, especially col. 7, lines 58-64, col. 12, lines 6-22	17-18
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" documents defining the general state of the art which is not considered to be of particular relevance "E" earlier document published on or after the international filing date "L" documents which may serve as prior art or which are cited to consider the publication date of another citation or other special reason (as specified) "O" documents referring to an oral disclosure, use, exhibition or other means "P" documents published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" documents of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" documents of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "Z" documents comprising the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
06 AUGUST 2001		29 AUG 2001
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer PATRICE WINDEL <i>Patricia R. Matthews</i> Telephone No. (703) 305-3938

Form PCT/ISA/210 (second sheet) (July 1998)\*

## INTERNATIONAL SEARCH REPORT

Inte.....and application No.  
PCT/US01/15601

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,850,386 A (ANDERSON et al.) 15 December 1998, abstract, especially Fig. 7, col. 16, line 52 - col. 17, line 64	1-16



